

ACCESSION NR: AR4015487

of the calculations for corrections (with the calculation of the speed of sound by different formulas) differed from one another. The seasonal variation of corrections for the deviation of the actual speed of sound in sea water to the calculated speed is shown. It was established by means of an analysis of the calculations that the fathometer corrections, in the computation of which the speed of sound was determined according to British Admiralty tables (and then according to Zubov's tables) and according to Kuvakhar's formula, coincide, but differ by a certain constant value from corrections computed according to the values of the speed of sound in sea water based on Del Grosso's tables or monograms. The correction obtained according to the last formula in all cases was larger than the correction, during the calculation of which the first of the named sources were used. The maximum divergences are given by corrections on the speed of sound obtained using Del Grosso's formulas and found from Matthew's tables, in which the seasonal variation of hydrological elements were not considered and the corrections were considered constant throughout the whole year for large ocean regions. A comparison of data according to season (spring and autumn) showed that the variation of hydrological characteristics affects the value of the correction. This effect was particularly great in the zones of hydrological fronts where significant deviations in the actual speed of sound from that calculated arise. It was established that the most precise correction for deviation of the actual speed of sound from the calculated is obtained

Cord 2/3

. ACCESSION NR: AR4015487

during determination of the speed of sound in sea water according to Del Grosso's formula. B. Zalogin.

DATE ACQ: 09Jan64

SUB CODE: AS, PH

ENCL: 00

Card 3/3

GRUZINOV, V.M.; CHEKOTILLO, K.A.

Dynamic characteristics of the subpolar front in the North
Atlantic. Dokl. AN SSSR 153 no.6:1307-1309 D '63.

(MIRA 17:1)

1. Gosudarstvennyy okeanograficheskiy institut. Predstavleno
akademikom Ye.K. Fedorovym.

GRUZINOV, V.M.

Convection overturn in the zone of the subpolar front in the North
Atlantic. Trudy GOIN no.77:39-45 '64. (MIRA 1964)

GRUZINOV, V.M.

Geostrophic currents in the subpolar front zone in the
northern part of the Atlantic Ocean. Okeanologia 4
no.2:243-248 '64. (MIRA 17:5)

1. Gosudarstvennyy okeanograficheskiy institut.

GRUZINOV, V.M.

Vertical circulation and the position of frontal zones in the
central part of the North Atlantic. (Okeanologia 4 no.3:408-411
'64 (MIRA 18:1)

1. Gosudarstvennyy okeanograficheskiy institut.

L 22033-66 EWT(1) GW

ACC NR: AT6006533

(N)

SOURCE CODE: UR/2634/65/000/084/0252/0262

AUTHOR: Gruzinov, V. M.

ORG: State Oceanography Institute, Moscow (Gosudarstvennyy okeanograficheskiy institut)

TITLE: The hydrologic front as a boundary of natural zones in the ocean

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy, no. 84, 1965. Voprosy morskoy meteorologii i okeanografii (Problems in marine meteorology and oceanography), 252-262

TOPIC TAGS: ocean dynamics, hydrography, ocean property

ABSTRACT: This paper considers problems associated with the delineation of physico-geographic zones in the Atlantic Ocean² and of fronts between these zones. The author has examined the principal aspects of the subpolar front that separates water in the temperate zone from water in the subpolar zone in the North Atlantic. No such boundary exists southward in the tropics and the equatorial zone as relations here are more complex. The author made an isopycnic study of all water bodies north of 40° N lat and was able to delineate a zone of interacting water masses by the position of the 50‰ relative salinity isopleth at different isopycnic surfaces (26.5, 27.0, 27.2, 27.5, and 27.8). This isopleth marks the boundary between waters of the temperate zone and the subpolar zone, or of the North Atlantic and Subarctic structures in the water. Several

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ACC NR: AT6006533

maps have been provided to show this boundary, not only on the basis of relative salinity but from observational data obtained during the IGY, on the basis of divergent and convergent water currents, and from the distribution of boreal and tropical fauna. It is concluded that the subpolar hydrologic front in the northern part of the Atlantic is a natural transitional zone between subpolar water and water of the temperate zone. It has very specific hydrologic conditions. The author expresses his sincere thanks to Professor A. M. Muromtsev, under whose guidance the work was carried out. Orig. art. has: 4 figures.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 015/ OTH REF: 004

Card 2/2 nst

ACC NR: AT6031967

SOURCE CODE: UR/2634/66/000/079/0117/0122

AUTHOR: Gruzinov, V. M.

ORG: none

TITLE: Drift circulation in the zone of the subpolar hydrologic front

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy, no. 79, 1966. Voprosy urovnya i techeniy (Problems of water level and currents), 117-122

TOPIC TAGS: geostrophic wind, subpolar front, tangential wind stress, atmospheric pressure gradient, drift circulation, *ATMOSPHERIC PRESSURE*, *ATMOSPHERIC CIRCULATION*

ABSTRACT: Analysis of geostrophic circulation in the North Atlantic Ocean proved that the basic flow of the North Atlantic current has no seasonal changes in position or velocity. Some seasonal changes occur in the subpolar front. The drift circulation in the North of the Atlantic Ocean was studied in spring and autumn. Geostrophic currents in deep oceanic layers represent the real motion of water, but on the surface of the ocean tangential wind stress plays a role and the general stream is the sum of drift and geostrophic currents. The drift component is determined using Eckmann's formula. The subpolar water

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UDC: 551.465.261

ACC NR: AT6031967

surface of Atlantic Ocean was divided into quadratic areas, each side of which was two-degrees long between the latitudes of 40° and 65°. The atmospheric-pressure gradient was used for determining the geostrophic-wind field. There are many methods for the determination of the atmospheric-pressure gradient. In this case the gradient is determined using formulas of finite differences. Components of the geostrophic wind were determined by formulas of K. A. Chekotillo. Results of these investigations revealed that types of atmospheric processes in winter and autumn differ in closed seas. In the free ocean, atmospheric processes exhibit a western deviation. Variations of drift circulations in summer and autumn occur mostly north of the 60th parallel. Maps containing vectors of drift currents show a cyclonic structure on the oceanic surface. In March the drift in lower latitudes westerly in the western part of the ocean and the easterly in the eastern part. In higher latitudes the drift is northerly. In September the drift in the western part of the ocean is southerly; only a small part in the east and north is northerly. Orig. art. has: 2 figures and 3 formulas.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 002

Card 2/2

ACC NR: AP6030455

(N)

SOURCE CODE: UR/0213/66/006/004/0593/0598

AUTHOR: Gruzinov, V. M.

ORG: State Oceanographic Institute, ^{Moscow} (Gosudarstvennyy okeanograficheskiy institut)

TITLE: Determination of depth of thermohaline mixing in the tropical regions of the oceans

SOURCE: Okeanologiya, v. 6, no. 4, 1966, 593-598

TOPIC TAGS: tropical zone, heat advection, oceanography, thermohaline mixing, salinity, ^{ocean property, ocean dynamics}

ABSTRACT: The present study was based on Tsikunov's method of computing thermohaline mixing and the Atlas edited by Budyko, which shows that in the tropical zones of the oceans horizontal heat advection is close to zero. Computation of thermohaline mixing depths was made from observations at a number of stations in the tropical latitudes of the Pacific, Atlantic, and Indian Oceans. Considering an increase in surface water salinity due to evaporation, this depth has been determined to be 50-80 m in the Pacific, 50-75 m in the Atlantic Ocean, and about 100 m in the Indian Ocean. The method used helps to show in detail the distribution of mixing in those regions where strong ocean currents are absent. Orig. art. has: 2 formulas and 4 figures.

SUB CODE: 08/ SUBM DATE: 06Jul65/ ORIG REF: 006

Card 1/1

GRUZINOV, Vladimir Petrovich; PAK, G.V., red.; GERASIMOVA, Ye.S.,
tekhn. red.

[Wages in the industry of socialist countries] Zarabotnaia
plata v promyshlennosti sotsialisticheskikh stran. Moskva,
Ekonomizdat, 1963. 323 p. (MIRA 16:7)
(Europe, Eastern--Wages)

GRUZINOV, Ya. A.

Baku. The utilization and servicing of the gas engine compressor "Clark" RA-3
Sostavili IA. A. Gruzinov i Sh.P. Arzumanov Baku, Aznefteizdat, 1945. 59 p.
(54-35323)

TJ990.B34

SHAKHMALIYEV, G.M.; GRUZINOV, Ya.A.

Efficient lowering of drill tool. Azerb. neft. khoz. 37 no.4:14-17
Ap '58. (MIRA 11:8)

(Petroleum engineering)

SHAKHMALIYEV, G.M.; GRUZINOV, Ya.A.

Calculating the design load on the brake of a draw works. Azerb.
neft. khoz. 38 no.2:19-20 F '59. (MIRA 12:5)
(Cranes, derricks, etc.)

SHAKHMALIYEV, G.M.; GHUZINOV, Ya.A.

Automatic control of the lowering of drilling tools. Azerb. neft. khoz.
39 no.11:22-25 ■ '60. (MIRA 13:12)
(Boring machinery) (Automatic control)

GRUZINOV, Ya.A.

Determining the braking moment of the brake of a drawworks.
Neft. khoz. 42 no.11:41-45 N 164 (MIRA 18:2)

SHAKHMALIYEV, G.M.; GRUZINOV, Ya.A.; KOGAN, R.N.

Efficient lowering of the drilling tool in the simultaneous
operation of power and hydraulic brakes of draw works. Sbor.
nauch.-tekh. inform. Azerb. inst. nauch.-tekh. inform. Ser.
Neft. prom. no.4:15-32 '63. (MIRA 18:9)

GRUZINOV, Ya.A.

Design of the brake bands of draw works. Mash. i nef. otbr.
no.6:11-14 '65. (MIRA 18:7)

1. AzNIiburneft'.

GRUZINOV, Yevgraf Vladimirovich; RYABKOV, Boris Aleksandrovich;
TOLCHEYEV, Tikhon Mikhaylovich; LYTKINA, L.S., red.izd-va;
PEREVALYUK, M.V., red.izd-va; MIKHEYEVA, A.A., tekhn. red.

[Assembly of the processing equipment of chemical plants]
Montazh tekhnologicheskogo oborudovaniia khimicheskikh za-
vodov. Moskva, Gosstroizdat, 1963. 231 p. (MIRA 16:8)
(Chemical plants--Equipment and supplies)

GRUZINOV, Ya.A.; KOGAN, R.N.

Dependence of the braking moment on the design parameters of the
brake of a drilling draw works. Mash. i nef. obor. no.8:17-20 '64.
(MIRA 17:11)

1. AzNiiBurneft'.

GRUZINOV, Yakov Aleksandrovich, kand. tekhn. nauk

[Method for calculating sucker rods for endurance] Meto-
dika rascheta shtangovykh kolonn na vyнослиvost'. Baku,
Azerneshr, 1965. 125 p. (MIRA 18:10)

L 62781-65 EWT(1)/FCC GW

ACCESSION NR: AR5012911

UR/0169/65/000/003/BO43/BO49 18
551.551 B

SOURCE: Ref. zh. Geofizika, Abs. 3B295

AUTHOR: Gruzinova, L. G.; Sofiyev, Ye. I.

TITLE: Relationship between the Richardson number and atmospheric turbulence

CITED SOURCE: Tr. Sredneaz, n.-i. gidrometeorol. in-ta, vyp. 19(34), 1964, 79-82

TOPIC TAGS: Richardson number, atmospheric turbulence, radiosonde 12

TRANSLATION: Measurements were made by means of radiosondes with an overloading adapter designed by the Central Aerological Observatory (TsAO). Data are given on the distribution of the Richardson Number (Ri) in turbulent and nonturbulent zones. The magnitude of turbulent formations to which the radiosonde was sensitive was 2 to 10 m. The Ri numbers were calculated for layers 1 km in distance from each other and at special points in the temperature range. The values of the Ri numbers obtained were attributed to the midportions of the respective layers. In the presence of cloudiness, a moist-adiabatic gradient was used to express the Ri number. To determine the Ri numbers and their relationship to turbulence, the

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ACCESSION NR: AR5012911

weighted mean values of the Ri number along the thickness of the layers were calculated, their distribution was plotted in graduations from 10 to 150, and the probabilities of turbulence were calculated for Ri numbers within each graduation. The following hypotheses were tested: (1) low Ri numbers unequivocally indicate turbulences; a low Ri is (2) a sufficient and (3) a necessary conditions for turbulence. The first and third hypotheses were not confirmed. The question as to whether a low Ri number is sufficient to indicate the presence of a turbulence remains obscure. R. Pastushkov.

SUB CODE: ES

ENCL: 00

ilk
Cord 2/2

L 16919-66 EWT(1)/FCC GW

ACC NR: AT6004110

SOURCE CODE: UR/2648/65/000/023/0050/0054

AUTHOR: Gruzina, L. G.

ORG: Central Asian Scientific Research Hydrometeorological Institute, Tashkent
(Sredneaziatskiy nauchno-issledovatel'skiy gidrometeorologicheskii institut)

36

B+1

TITLE: The problem of intradiurnal pressure variation

12, 44, 55

SOURCE: Tashkent. Sredneaziatskiy nauchno-issledovatel'skiy
gidrometeorologicheskii institut. Trudy, no. 23(38), 1965. Voprosy
aerologii subtropicheskikh i tropicheskikh rayonov (Problems in the
aerology of subtropical and tropical regions, 50-54)

TOPIC TAGS: troposphere, atmospheric pressure, diurnal variation

ABSTRACT: Tropospheric pressure variations over Tashkent, Alma-Ata,
Nanay, and Varzyk were determined from radiosonde data obtained in 3 hr
intervals in February, March, May and June. The pressure variability
decreased to a minimum at the 4-5 km mid-tropospheric level and again
at the 16 km upper troposphere-lower stratosphere level. The pressure
change-time interval change ($\Delta P - \Delta t$) functions for time intervals of
3-24 hours, usually linear, were sometimes shown by parabolic formulae.
The cause of such variations could not be determined by analysis of
such intermittent studies in different locations. The pressure

2

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L 10919-56

ACC NR: AT6004110

variation characteristics for Nanay and Tashkent and for Tashkent and Varzyk were quite similar in spite of the different physical-geographical conditions and the distance. It was concluded that the effect of synoptic processes on pressure variations is apparently so great that it is impossible to recognize, from a small number of observations, the features caused by differences in physical-geographical conditions. Orig. art. has: 2 figures and 1 table.

SUB CODE: 04/ SUBM DATE: 00/ ORIG REF: 004

Card 2/2

BUGAKOV, P.I.; GRUZINOVA, T.A.; IONAYTIS, R.R.; KAMEN'SHCHIKOV,
F.T.; POPOV, D.N.

[Study of a hydraulic system with a body moving within
it] Issledovanie gidravlicheskoj sistemy s dvizhushchim-
sia v nei telom. [n.p.] Gos.kor.-t po ispol'zovaniu atom-
noi energii, 1960. 42 p. (MIRA 17:1)

(Hydraulics)

16781

S/089/62/012/005/013/014
B102/B104

21.1000
26.2240

AUTHORS: Gruzinova, T. A., Ionaytis, R. R., Kamenshchikov, V. T.,
Popov, D. N.

TITLE: Calculation of transient states in a hydraulic loop contain-
ing a falling body

PERIODICAL: Atomnaya energiya, v. 12, no. 5, 1962, 421-423

TEXT: Transient-state calculations were carried out for a hydraulic loop (Fig. 1) with one vertical tube (1) in which a solid body 2 ($h=12\text{m}$, $d = 0.0306\text{m}$) is allowed to fall; the elasticity of the liquid and the pipe walls is ignored. The purpose of the calculations was to see if the velocity v of the falling body could be increased. A relation between the liquid pressure and flow rate in the system, on the one hand, and v on the other, was found. The liquid in the loop flows at $w = 0.25 \text{ m/sec}$ before the body starts falling in the vertical tube. The motion of the liquid is described by

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Calculation of transient states in ...

S/089/62/012/005/013/014
B102/B104

$$\frac{p_{0(I)} - \gamma}{\gamma} = \alpha_{0(I) - \gamma} \omega^2 + \beta_{0(I) - \gamma} \frac{d\omega}{d\tau} \pm \alpha_{III} (\omega - v)^2 \mp \beta_{III} \frac{dv}{d\tau} \quad (1),$$

the motion of the body by

$$\frac{dv}{d\tau} = a + b (\omega - v)^2 + c \frac{d\omega}{d\tau} \quad (3).$$

p is the pressure, γ the specific weight of the liquid, the α and β are numerically given coefficients, τ the duration of the fall, the double signs stand for $\omega \gtrless v$; a , b , and c are also numerically given. The equations are numerically solved when a) an accumulator (providing discharge and pressure of the liquid) is at the loop entry and b) an accumulator is at the top of the vertical tube. The results are graphically shown: $p_{0/I} = f(\tau)$ for (a) and $\omega, v = f(\tau)$ for (b). a) At a water pressure of 20-30 kg/cm² the body travels along a path of 3.5 m in $T = 0.8 - 1.2$ sec. b) at $p_{I-I} = 1, 4.5$, and 9 kg/cm², $T = 1.4, 1.07$, and

Card 2/3

Calculation of transient states in ...

S/089/62/012/005/013/014
B102/B104

0.87 sec (path 3.5 m). Conclusions: 1) in the section I-I of a loop with constant pressure the body falls continuously; 2) with constant pressure at the entry of the vertical tube the body falls 3.5 m in 0.9 - 1.4 sec; 3) if the accumulator is placed at the vertical tube it is more effective than if it is at the loop entry. These calculations can be valuable for analyses of special hydraulic systems, such as in the safety shields of atomic power plants. There are 3 figures.

SUBMITTED: November 29, 1961

Card 3/3

GRUZINOVA, YE.D.

FV 3070. WORKING OUT A CLASSIFICATION OF THE TENDENCY OF PEATS
TO SPONTANEOUS HEATING. Dragunov, S.S. and Gruzinova, E.D.
(Trif. Proc. (Peat Ind., Moscow), Apr. 1955, 25-27). The conditions
which cause spontaneous heating and combustion involve the formation of
peroxides. To throw light on these, experiments were made on the action of
hydrogen peroxide on peats at about 20°C. A sharp rise in temperature
usually occurred with lowland, but not with upland, peats. This is due to
the catalytic action of iron in the lowland peats. (L.)

Moscow Peat Inst.

GRUZINSKAYA, A.P.; PANFEROVA, Ye.A.

Treatment of trichocephaliasis with oxygen [with summary in English]
Med.paraz. i paraz.bol.26 no.2:182-184 Mr-Ap '57. (MLR 10:7)

1. Iz polikliniki No.32 Zhdanovskogo rayona Moskvy i parazitologicheskogo otdela Leningradskoy gorodskoy sanitarno-epidemiologicheskoy stantsii.

(TRICHOCEPHALIASIS, ther.
oxygen, rectal admin.)

(OXYGEN, ther. use
trichocephaliasis, rectal admin.)

GRUZINSKAYA, P.Z.

Carnival evening dedicated to physics. Fiz. v shkole 23
no.5:73 S--O '63. (MIRA 17:1)

1. 48-ya vos'miletnyaya shkola, Dnepropetrovsk.

Garinshin, Yuri Alekseevich. Sov. film; uchebnik-dl. / I. A. Garinshin; 1948.
nyuh smel. Moskva, Ucheizdat, 1948. 171 p. OLC: 1948.77

SO: LC, Soviet Geography, Part 1, 1951, uncl.

GRUZINSKAYA, V.A.; NOVIKOV, Ya.A., redaktor; SAKHAROVA, N.V., tekhnicheskiiy redaktor.

[Geography; textbook for the 5th class of auxiliary schools]
Geografiya; uchebnik dlia 5 klassa vspomogatel'nykh shkol.
Izd. 10-oe. Moskva, Gos. uchebno-pedagogicheskoe izd-vo ministerstva prosveshcheniia RSFSR, 1954. 118 p. (MLRA 8:1)
(Geography)

GRUZINSKAYA, V. A.

"Pedagogical readings" of the Academy of Pedagogical Sciences. Geog.
v shkole 18 no.5:68-69 S-0 '55. (MIRA 8:12)
(Geography--Study and teaching)

GRUZINSKAYA, V.; RAYEVA, Yu.

"Geography reader." N.I. Blonskaia, V.A. Raush. Reviewed by
V. Gruzinskaia, IU. Raeva. Geog.v shkole 19 no.1:73-75 Ja-F '56.
(MLBA 9:5)
(Geography) (Blonskaia, N.I.) (Raush, V.A.)

GRUZINSKAYA, V.A.

Work of the School Geography Section during 1956. Top. geog. no. 40:
223-226 '57. (MLRA 10:8)
(Geography--Study and teaching)

GRUZINSKAYA, V.; MALYATSKIY, L.; RAYEVA, Yu.; SHARETS, D.; YAKOVLEV, G.

A new geography draft program for the eight-year school. Geog.
v shkole 22 no.4:1-7 J1-Ag '59. (MIRA 12:11)
(Geography--Study and teaching)

SHARETS, D.S.; GRUZINSKAYA, V.A.

Work of the fifth grade teacher on the first themes in the new
geography program. Geog.v shkole 22 no.4:27-30 J1-Ag '59.
(MIRA 12:11)

(Geography---Study and teaching)

SAUSHKIN, Yu.G.; SOLOV'YEV, A.I.; YEFREMOV, Yu.K.; KOTEL'NIKOV, V.L.;
IOFA, L.Ye.; DANTSIG, B.M.; BARKOV, S.A.; GRUZINSKAYA, V.A.;
BARKOVA, G.Ye.

V.A.Kondakov, 1886-1959; obituary. Vop. geog. no.54:174-176
'61. (MIRA 15:3)

(Kondakov, Vadim Aleksandrovich, 1886-1959)

GRUZINSKAYA, Z. P.

PHASE I BOOK EXPLORATION NOV/5688
Akademiya nauk SSSR. Institut mashinovedeniya. Komissiya po tekhnologicheskoy razrabotke i razrabotke. Seminar po kachestvu poverkhnostnykh sloev mashinostroyeniya. Sbornik 4. Tekhnologicheskiye faktory obrabotki. Metrologiya i pribury. Eksploataatsionnyye svoystva poverkhnostnogo sloya. (Surface Quality of Machine Parts. Collection of Articles, No. 4. On the Problem of the Surface Layer) Moscow, Izdatel'stvo AN SSSR, 1959. 291 p. (Series: Iza: Study) Brata all imported. 3,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya.
Recd. Ed.: P.Ye. D'yachenko, Professor; Ed. of Publishing House: G.B. Gerasimov; Tech. Ed.: Z.P. Polanova.

PURPOSE: This collection of articles is intended for technical personnel concerned with the quality of surface finishes of machine parts.

COVERAGE: This collection of articles deals with problems of surface roughness and the effect of surface roughness on the strength of machine parts. The articles discussed are the effect of surface roughness on the strength of machine parts, the effect of cutting feeds and cutting-tool vibration on the surface roughness of machine parts, the effect of lay direction on the wear of plane friction surfaces, methods and instruments for measuring surface roughness, and the processing of profilograms of finished surfaces. No personalities are mentioned. References follow several of the articles.

Chernomazov, S.P. Quality and Wear of Friction Surfaces	41
Beloglazko, P.Y. Effect of Lay Direction on the Wear of Plane Friction Surfaces	49
Shchegolev, I.S. Use of the Cutting Process for Increasing the Fatigue Strength of Machine Parts	55
Chetvornikov, L.A.; P.Ye. D'yachenko, and O.Ye. Kostner. Solid Lubricants in Dry Friction	79
Papashin, D.D. Effect of Surface-Layer Quality on Fatigue Strength	85
Kas'yan, N.Y. Some Problems of the Formation of the Surface Layer	93
Per'ye, O.B. Theory of the Working Cycle in Grinding as the Basis for Improving Grinding Quality	98
Bibbaylov, A.A. Effect of Process Factors in Grinding on the Surface Layer Quality of Chrome-Plated Parts	116
Barinov, A.I. Roughness of Machined Surfaces in Precision and Coarse Turning of Steel	127
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Podolskaya, S.A. Thermal Phenomena in the Grinding of Quenched Hardened Steel	142
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Blasovitch, A.I. On the Problem of Surface Roughness of Machined Friction-Engine Parts	164
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Kartashev, A.P. Photoelectric Method of Recording Surface Profiles [Profilograph]	171
Klementov, Yu.V. "Malibr-VII" Induction-Type, Profilograph-Profilometer	177
Boytsov, A.I. Electric Circuit of the "Malibr-VII" Profilograph-Profilometer	184
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Tishchenko, G.A. "Visual" Device for Measuring the Roughness of Ground Surfaces	199

GRUZINSKIY, P.

For an efficient schedule of watch duty. Mor. flot 22
no.9:22-23 S '62. (MIRA 15:12)

1. Kapitan parokhoda "Dushanbe" Murmanskogo parokhodstva.
(Merchant ~~marine~~—Watch duty)

GRUZINSKIY S. KH.

4681. Programma Kurso Tekhnika Bezopasnosti I Protivoprzhnaya Tekhnika
(Dlya Lesokhoz Fak) 1954-1955 Ucheb. Goc. Tvilisi Izd-Vo Grvz S-Kh. In-ta, 1954. 88
23em (M-Vo. vysshobrazovaniya SSSR. gruz ordena Tmud Krasnogo Znameni S-Kh In-T)
100 Eks. Bespl-Na Grvz. Yax--(54-572707. 634.95: 658.283/ 634.92:632.187) (071.1)

BORISEVICH, N.A.; GRUZINSKIY, V.V.

Determining temperatures of excited molecules of vapors by
Stepnov's universal ratio. Dokl. AN BSSR 4 no.9:380-383 S '60.
(MIRA 13:9)

1. Institut fiziki AN BSSR. Predst. akad. AN BSSR B.I. Stepanovym.
(Vapors)

BORISEVICH, N.A.; GRUZINSEIY, V.V.

Electron spectra of anthraquinone vapors. Izv.AN SSSR.Ser.fiz.
24 no.5:545-548 My '60. (MIRA 13:5)

1. Institut fiziki AN BSSR.
(Anthraquinone--Optical properties)

PHASE I BOOK EXHIBITION

SCV/9713

Sovetskoye pr. Leningradskiy, 8th, 1979

Metody luminescentnoy analizi; materialy sverkhbuzhnykh (Methods for Luminescence Analysis; Materials of the 8th Conference) Minsk, Izdat. AN BSSR, 1980. 147 p. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Belorusskoy SSR, Institute Fizik.

General Ed.: B. A. Borisevich; Ed.: L. Timofeyev; Tech. Ed.: B. Siderov.

REMARKS: This collection of articles is intended for chemists and physicists interested in molecular luminescence, and for scientific personnel concerned with applications of this and related phenomena in research in the life sciences.

COPYNOTE: The collection contains 26 papers read at the Eighth Conference on Luminescence, which took place 19-24 October, 1979 (place of conference not given). These studies are concerned primarily with the development of new luminescence methods for quantitative and qualitative chemical analysis, and with the applications of luminescence in medical and biological research. They also contain several methods for the determination of various chemical elements, including boron, of skin cancer and the detection of erysip virus, for the detection of hepatitis, etc. The structural design of new instruments for luminescence analysis is described. The conference was not concerned with studies on the phosphorescence of crystal phosphors. There is a discussion of the contributions of Soviet specialists in molecular luminescence in the course of the year and a half preceding the conference. The articles of V. K. Matveyev (p. 75) and of V. V. Parfityev (p. 79) have been annotated because of their importance. No personalities are mentioned. References accompany most of the articles.

FALLIS, J. A. [Institute of Nutrition of the Academy of Medical Sciences AS USSR]. Fluorescent (Immobilization) Serum for the Detection of Cl. Botulinum 122

FALLIS, J. A., and V. L. Shchegolev. [Institute of Nutrition of the Academy of Medical Sciences (USSR)]. Quantitative Determination of Chemical Glycosides in Solutions by Objective Luminescence Analysis 127

FALLIS, J. A. [Moscow State University Dept. M.Y. Lomonosov]. Spectral Investigation of Luminescence and Afterglow of Albumins and Aromatic Amino Acids 132

Kozlov, S. V., and I. I. Kozmin [Vsesoyuznyy Institut Khimicheskoy Fiziki, Akademiya Nauk SSSR]. New Fluorescence Method of Determining Albumin in Milk 137

Kubaylov, O. I., and B. M. Koshkova. [All Union Scientific Research Institute of Chemical Reagents, Fluorescent Dyes for Labeling Albumins]. Determination of Albumin in Milk by the Method of Fluorescence. Determination of the Determination of the Levels of Certain Free Species by the Luminescent Method 143

AVAILABLE: Library of Congress

BORISEVICH, N.A.; GRUZINSKIY, V.V.

Effect of temperature, magnitude of the exciting quanta, and foreign gases on the structural electron spectra of molecules in vapors. Dokl. AN BSSR 7 no.5:309-312 My '63. (MIRA 16:12)

1. Institut fiziki AN BSSR. Predstavleno akademikom AN BSSR B.I. Stepanovym.

BORISEVICH, N.X.; GRUZINSKIY, V.V.

Studying the excited states of vapors of complex molecules on the basis of the universal relationship between fluorescence and absorption spectra. Part 1. Opt. i spektr. 14 no.1:39-44 (MIRA 16:5)
Jul '63.

(Molecular spectra)

(Quantum theory)

GRUZINSKIY, V.V.; BORISEVICH, N.A.

Studying the excited states of vapors of molecules on the basis
of a universal relation between the fluorescence and absorption
centers. Part 2: Structured spectra. Opt. i spektr. 15 no.4:457-
463 0 '63. (MIRA 16:11)

ACCESSION NR: AP4011506

S/0051/64/016/001/0171/0174

AUTHOR: Borisevich, N.A.; Gruzinskiy, V.V.; Tolkachev, V.A.

TITLE: Concerning anti-Stokes fluorescence of molecules

SOURCE: Optika i spektroskopiya, v.16, no.1, 1964, 171-174

TOPIC TAGS: molecular fluorescence, anti-Stokes fluorescence, fluorescence excitation, vapor fluorescence, solution fluorescence, fluorescence spectrum, absorption spectrum, 3,6-tetramethyldiaminophthalimide, 3-aminophthalimide

ABSTRACT: It has been demonstrated in some recent papers (I.Ketskemety, J.Dombi and R.Horvai, Acta Phys.Hung.12, No.263, 1960; Ann.Phys.8, 342, 1961; M.N.Alentsev and L.A.Pakhomycheva, Opt.i spektr.12, 565, 1962; Yu.T.Mazurenko, Ibid.13, 854, 1962) that the decrease in the quantum efficiency of fluorescence of solutions under anti-Stokes excitation is connected with inactive absorption. In the present work it is shown, however, that in the case of thoroughly purified substances no decrease of the fluorescence efficiency of vapors and solutions occurs in the anti-Stokes region. The investigated substances were 3,6-tetramethyldiaminophthalimide and 3-aminophthalimide, which have been investigated earlier (B.S.Neporent and N.A.Borisevich, Opt.i

Card^{1/2}

ACC.NR: AP4011506

spektr.1,114,1956; DAN SSSR,94,447,1954; Yu.T.Mazurenko.Ibid.13,854,1962). They synthesized and then thoroughly purified by repeated recrystallization and sublimation under vacuum at different temperatures. Adequate measures were taken to avoid contamination of any kind. The solution absorption spectra were recorded by means of an SF-4 spectrophotometer; the absorption of the vapors by means of a set-up assembled about an SF-4 spectrophotometer. The fluorescence spectra were measured by means of a high sensitivity photoelectric set-up. The absorption and fluorescence spectra in the approximate range from 18 000 to 26 000 cm^{-1} are reproduced in figures. In all cases the excitation function F_{λ} is linear. It is inferred that the "apparent" anti-Stokes decrease in fluorescence efficiency reported by other authors was connected with the presence of impurities that affected the weak absorption of the host in this spectral region. "The authors are grateful to T.E.Kolosova for synthesis and purification of the investigated substances." Orig.art.has; 2 figures

ASSOCIATION: none

SUBMITTED: 24May63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: PH

NR REF SOV; 015

OTHER: 001

Card 2/2

GRUZINSKIY, V.V.

Application of a universal relation to the structural spectra of
fluorescence and absorption of vapors of aromatic molecules.

Izv.AN SSSR.Ser.fiz. 27 no.4:580-583 Ap '63. (MIRA 16:4)
(Aromatic compounds—Spectra)

GRUZINSKIY, Yu. master sporta

Advice of a master of sports. Pozh.delo 8 no.7:23 J1 '62.

(MIRA 15:8)

(Firemen) (Physical education and training)

GRUZINTSEV, N.I.

"Further technical progress in the footwear industry." Log.
prom. [16] no.11:17-18 N '56. (MLRA 10:1)

1. Vyrubshchik fabriki "Skorokhod."
(Shoe industry)

DONETS, S. (Rostov-na-Donu); KUZ'MIN, A. (Irkutsk); MEDVEDEV, N. (Saratov);
LICHKOV, G. (Arkhangel'sk); TSYPIN, Ye. (Sverdlovsk); GITCHENKO, I.
(Sochi); GRUZINTSEVA, A. (Novosibirsk); ALIMOV, R. (Alma-Ata);
GOLOBORODOV, M. (Syktyvkar)

Outposts of air transportation. Grazhd.av. 20 no. 4:22-24 Ap
'63. (MIRA 16:5)

(Aeronautics, Commercial)

GRUZINTSEVA, A. N.

Gas purification from organic sulfur compounds by oxidation on activated carbon. Ya. D. Zel'venskiĭ and A. N. Gruzintseva. *Trudy Gosudarst. Nauch.-Issledovatel'sk. Prom. Inst. Azot. Prom.* 1952, No. 1, 159-202 (Pub. 1963); *Referat. Zhur., Khim.* 1955, Abstr. No. 57400. The oxidizing method for purification of gases from S compds. by activated carbon (AC) is investigated. Basic gas for the study is a mixt. obtained by decompn. of NH_4 contg. N, H, NH_3 , air, water vapors, and certain amts. of CS_2 or COS. It is found that at normal temps., the purification of the gas from CS_2 is caused only by the direct absorption as a consequence of which the absorption of AC is low. At normal temps. the COS changes chemically on the AC surface with process characteristics typical for chemisorption processes. The optimum O_2 content for the purification from COS on AC is $\approx 0.1\%$, and the NH_3 quantity should be 2.5-3 times more than S. Lowering the temp. improves the purification process, increases the absorption capability of AC, and decreases the consumption of NH_3 . It is recommended that the relative humidity be kept at 50-60%. Best results are obtained with AC grain size 1-2 mm, and gas velocity 0.1 m./sec. (figuring on the app. cross section). The used AC is regenerated by water steam at a temp. over 350°.

N. Vasilev

GRUZIN TSEI A, A. N.

3400. Determination of organic sulphur compounds in a gas by converting them into hydrogen sulphide. Ya. D. Zel'venski, A. N. Griguleva and S. Yu. Gerchikova (*Zapad. Ent.* 1946, 21, 13, 277-281).—The gas, freed from H_2S by passage through an absorbent containing 185 g of Na_2CO_3 and 150 g of $K_2Fe(CN)_6$ in 1 litre of water, enters a quartz tube (12 to 16 mm \times 80 cm), filled with pieces of quartz (3 to 5 mm in diameter) and heated in a tube furnace (50 to 60 cm in length)

to between 900° and 1100° C, at a rate of 1 to 2 litres per sec. The H_2S formed is absorbed in 100 ml of 2 per cent. cadmium acetate soln. containing 10 ml of glacial acetic acid per litre. Excess of 0.01 or 0.02 N I is added and the excess is determined by titrating with thiosulphate, with starch as indicator. With sulphur contents greater than several tenths of a mg per cu. metre, the complete determination takes 15 to 20 min. Any O in the gas becomes converted into H_2O and does not interfere. The method can be used in the absence of organic compounds containing H by mixing 25 per cent. of H with the gas. G. S. Smith

LEYBUSH, A.G., kand. khim. nauk; GRUZINSEVA, A.N.

Reactions of monoethanolamine with carbon disulfide and carbonyl
sulfide. Part 2. Trudy GIAP no.8:5-16 '57. (MIRA 12:9)
(Ethanol) (Carbon disulfide) (Carbonyl sulfide)

LEYBUSH, A.G., kand. khim. nauk; GOL'DMAN, A.M.; GRUZINTSEVA, A.N.

Side reactions during the removal of carbon dioxide and hydrogen sulfide from coke-oven gas by the use of monoethanolamine. Part 3.

Trudy GIAP no.8:124-144 '57. (MIRA 12:9)
(Coke-oven gas) (Gas purification) (Ethanol)

LEYBUSH, A.G.; LYUDKOVSKAYA, B.G.; GRUZINTSEVA, A.N.; LIKHACHEVA, A.S.;
YANYKINA, Ye.V.; GOL'DMAN, A.M.

Effect of the thermal treatment of a nickel catalyst on the process
of methane conversion. Khim. prom. no. 2:90-96 F '61. (MIRA 14:4)
(Methane) (Catalysts)

45075

S/051/63/014/001/007/031
E039/E120

24-3500

AUTHORS: Borisevich, N.A., and Gruzinskiy, V.V.

TITLE: Study of the excited states of the vapour of complex molecules on the basis of the universal relation between fluorescence and absorption spectra. I.

PERIODICAL: Optika i spektroskopiya, v.14, no.1, 1963, 39-44

TEXT: The fluorescence of the vapour of three different groups of organic compounds is investigated and analysed by means of the above universal relation. The dependence of the excitation temperature on the frequency of the exciting light ν_B is studied for: 3,6-tetramethyldiamino-, 3,6-diamino-, 3-aminophthalimide, and 1-aminoanthraquinone. It is shown that the frequency of electron transition ν_{el} is equal to the frequency for which $\Delta T = 0$ in the region of the maximum of the absorption band ($\nu_{el} = 22\,750\text{ cm}^{-1}$). $\Delta T = T^* - T$ where T^* is the excitation temperature and T the temperature at which the experiment is carried out. When $\nu_B < \nu_{el}$, $\Delta T < 0$, and at $\nu_B > \nu_{el}$ then $\Delta T > 0$, i.e. the excited molecules possess an excess vibrational energy. In the case of 3,6-tetramethyldiaminophthalimide, ΔT

Card 1/2

Study of the excited states of ...

S/051/63/014/001/007/031
E039/E120

is independent of the temperature T at which the experiment is conducted, while for 3,6-diaminophthalimide ΔT decreases with increase in T for all observed values of ν_B . The fluorescence and absorption spectra of perylene are also examined at temperatures of 513, 633 and 713 °K. With increasing temperature the spectrum shows strong broadening.

The function $F_\nu = \ln \frac{W_{\nu,T}}{\epsilon_{\nu,T}} - 3 \ln \nu$ remains linear over the

range of temperatures studied. $W_{\nu,T}$ is the luminescent power at temperature T , and $\epsilon_{\nu,T}$ is the absorption coefficient at temperature T . This form of the universal relation can also be used for studying the excitation of molecules possessing spectral structure.

There are 2 figures and 1 table.

SUBMITTED: December 6, 1961

Card 2/2

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

ODIN', Ya.[Odins,J.]; BUSH,K.[Buss,K.]; KLYAVIN', Ya. [Klavins,J.];
MAYKE,P.[Maike,P.]; GRUZIS,A., kand. sel'khoz.nauk, retsenzent;
OZOLIN,K.[Ozolins,K.], inzh., lesokhoz., retsenzent; LIELPETERS,F.,
red.; KRASOVSKA, M., tekhn. red.

[Drainage of forests] Mezu nosusinasana. By J.Odins. and others.
Riga, Latvijas Valsts izdevnieciba, 1960. 282 p. [In Latvian]
(MIRA 14:12)

(Latvia—Forests and forestry) (Drainage)

Grubis, A. Ya.

Grubis, A. Ya.

"The Effect of Drying on the Growth of Pine Forests." Acad Sci Latvian SSR, Inst of Forestry Problems. Riga, 1955 (Dissertation for the degree of Candidate in Agricultural Sciences)

SO: Knishnyaya Istepis' No. 7, 2 July 1955

1. GRUZIKOV, I. YA.
2. USSR (600)
4. Steel--Analysis
7. Carbide analysis in investigating the process of graphitization in steel, Lit. proizv., No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

12

ca

Increasing the baking capacity of flours. P. GAUZI and A. SZARD. Hung. 102,064, Jan. 18, 1930. Peroxides stabilized by addn. of enzymes or org. compds. are mixed with the flour or with the leaven. E. g., 3 g. asparagine is added to 10 cc. H₂O, and cooled. The cryst. product is mixed with 3 g. malt diastase, and 0.1-0.5 g. of the mixt. is added to 1 kg. flour or leaven.

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

C A

consequences of the quality tests of wheat flour. FERMENC, GHEZI
Mrebgandazgi Kutakish 5, 215 20(1932) The softening of dough is caused not by
the soln of proteins due to proteolytic enzymes but by a simple physical soln, which
can be hastened by mechanical procedure. The gas developing and gas retaining
capacity is directly connected with the vol increase of flours S S de FINALE

ASB SLA METALLURGICAL LITERATURE CLASSIFICATION

12

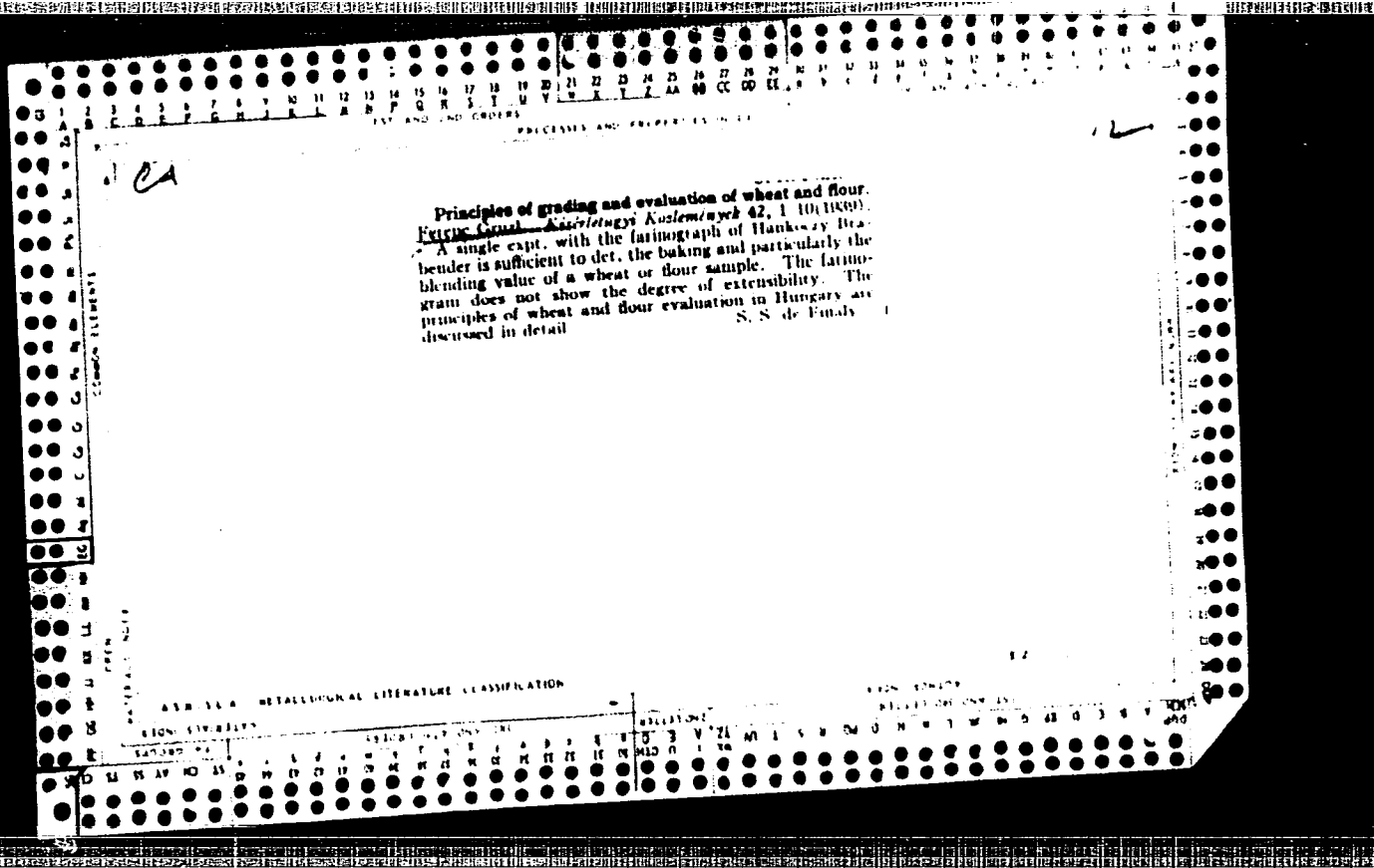
CP

PROCESSES AND PROPERTIES INDEX

Improvement of flour by means of sodium chloride.
 Ferenc Gruel. *Mezőgazdasági Kutatások* 7, 1-6(1934).
 The effect of addn. of 2.5% NaCl to flours of various
 qualities was studied. NaCl-contg. doughs were harder
 and bread made from these doughs rose higher than bread
 made without NaCl. The effect of NaCl is attributed to
 the pptn. or the prevention of addn. of gluten-forming
 substances. S. S. de Pinally

ASME-SEA METALLURGICAL LITERATURE CLASSIFICATION

SECTION: 100000 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000



1ST AND 2ND ORDERS		PROCESS AND PROPERTIES INDEX	
C K		<p>Laborograph, a new apparatus and procedure for evaluating wheat and flour. Ferenc Grunl (Land. Inst. Invest. Cereals and Flours, Budapest, Hungary). <i>Kisérleti Közlemények</i> 45, 27-47(1942).—Fifty g. wheat is ground and sieved. The best method is to use a small poppyseed mill, which gives fine flour without any bran remnants. Now the flour is sieved by use of a No. 8 silk sieve. The mean quantity of flour obtained thus is 22-24 g. after one grinding. Glassy wheat samples eventually must be ground twice. Now 20 g. of the sieved flour is kneaded to a dough with 10 cc. water in a porcelain dish. Kneading must take place in a uniform manner in all of the investigations. Dough is now put in a ring of 50 mm. diam. and 11 mm. height; then an Al piston is placed in its center and the dough is pressed into the ring by means of a metal plate with a small hole in its center. By this procedure a dough layer with planoparallel surfaces is obtained. The dough shape with the metal piston is then placed in a thermostat at exactly 30° for 30 min. In the measurement the dough with piston is placed in the app. and an elec. motor begins to operate and pulls the piston slowly out of the dough. The more ductile and the more consistent the dough is, the longer the expansion lasts and the lower may sink the so-called ductility chain-box of the app. without tearing off dough. The ductility chamber is connected with a writing plate with an arm and thus the movements can be fixed as diagram (named laborogram) the area and shape of which are characteristic to the quality of flour. The evaluating number of flour can be calcd. by the formula $O^2/4 H$, where O is the area of the laborogram (in sq. cm.) and H is the height of laborogram (in cm.). The groups of values are as follows: if the laborograph value runs 0.00-1.70 the wheat is of low quality, suitable for bread prepn. only after amelioration by first-quality flours; 1.80-3.90 wheat suitable for baking; 4.00-8.90 wheat of very good quality suitable for ameliorating low-quality flours; and above 9.00 wheat of superfine quality.</p> <p style="text-align: right;">István Finlay</p>	
A10-11A METALLURGICAL LITERATURE CLASSIFICATION		62-107-22-22-22	
FROM STUDENT		FROM BORROWER	
CARD NO.		SERIAL ONE ONLY ALL	

GRUZI, F.

"Accelerated Methods of making bread." p. 242. (ELEMEZESI IPAR. Vol. 5, no. 8
Aug. 1951, Budapest.)

Vol. 3, No. 6
SO: Monthly List of East European Accessions. /Library of Congress, June 1954 Uncl.

HUNGARY / Chemical Technology. Chemical Products and H-28
Their Application. Food Industry.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 2779.

Author : Gruzl, F., Rajakai, P.

Inst : ~~Not given.~~

Title : The Study on Baking Properties of Hungarian Varieties of Wheat During 1953-1955.

Orig Pub: Novenytermeles, 1957, 6, No 4, 289-302.

Abstract: Based on a three year study of several thousand wheat samples, it was established that the amount of gluten and the quality of dough depend on the variety and factors connected with a growing locality (soil and climatic conditions, soil treatment and others). It was shown that the selection of seed is not used to a full degree.

Card 1/1

GRUZMAN, A.D.; MAKSIMOV, A.V.; REYFMAN, L.M.

Lower boundary of Oligocene in the eastern Carpathian. Dokl.
AN SSSR 145 no.5:1110-1112 '62. (MIRA 15:8)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut. Predstavleno akademikom N.M.Strakhovym.
(Carpathian Mountains—Geology, Stratigraphic)

VORONOV, F.D., prof.; SELIVANOV, N.M., kand.tekhn.nauk; RABINOVICH, Ye.I.,
kand.tekhn.nauk; UZIYENKO, A.M., inzh.; TKACHENKO, I.A., inzh.;
KUSTOBAYEV, G.G., inzh.; IVANOVA, N.G., inzh.; RYABCHIKOV, F.D., inzh.;
GRUZNOV, A.K., inzh.

Developing a technology for the casting and quality investigation
of 21-ton rimmed steel ingots. Stal' 22 no.8:709-713 Ag '62.

(MIRA 15:7)

(Steel ingots)

TRACHENKO, I.A.; FILATOV, A.D.; UZUYENKO, A.P.; GRUBINOV, A.K.; DEYENKO, D.I.;
ARYCHENKOV, V.P.; ZAYAKIN, B.I.

Quick pouring and the quality of rimmed steel. Metallurg 10 no.8:
17-19 Ag '64. (MIRA 17:11)

1. Magnitogorskiy metallurgicheskiy kombinat.

GRUZNOV, G.F.

The ZR53-type hydraulic copying and bulging lathe. Biul.tekh.-
ekon.inform. no.6:17-19 '58. (MIRA 11:8)
(Lathes)

GRUZNOV, G.F.

Production of large-size tablets and their use in the the manufacture of plastic goods. Plast.massy no.1:65-68 '61. (MIRA 14:2)
(Plastics industry—Equipment and supplies)

GRUZNOV, G.F., inzh.

Hydraulic turning device. Khim. mashinost. no.189-11 Ja'83
(MIRA 17:17)

GRUZNOV, I.

A new device. Mashinostroitel' no.11:12 N '61. (MIRA 14:11)
(Measuring instruments)

GRUZNOV, I.I.

Hydraulic compression dynamometer. Mashinostroitel'
no.11:28 N '62. (MIRA 15:12)
(Dynamometer)

GRUZHONOV, I.I., inzh.

Introduction of synthetic diamonds at the radial-boring
machinery plant. Mashinostroenie no.6:31-33 N-D '65.

(MIRA 18:12)

ACC NR: AP6033155

SOURCE CODE: UR/0105/66/000/010/0082/0083

AUTHOR: Gorina, N. B.; Gruznov, Yu. A.; Kolobanov, V. V.; Matorin, V. I.; Prokoshin, A. F.; Rad'kov, A. I.; Sokolov, V. I.; Tret'yakov, B. N.; Fedotov, L. N.; Khromov, S. M.; Kuleshov, V. F.

ORG: Central Scientific Research Institute of Ferrous Metallurgy im. I. P. Bardin (Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii)

TITLE: The 65BT superconducting alloy

SOURCE: Elektrichestvo, no. 10, 1966, 82-83

TOPIC TAGS: superconducting alloy, superconductivity

ABSTRACT: A new, relatively low cost Nb-Ti based alloy, designated 65BT, which meets all the major requirements for superconductors has been developed. Because of its properties it can be used in 1) magnetizing devices, such as superconducting solenoids, for field strengths varying from 20 to 80 koe, and 2) wires 0.1—0.3 mm in diameter and up to 12,000 m long and tapes 5 μ thick. The alloy, which contains 65% niobium, 25% titanium, and several other components, is produced in

Card 1/2

UDC: 537.312.62

I. 02991-67

ACC NR: AP6033155

an arc furnace and, after thermal processing, is cold drawn. For use in superconducting solenoids, the alloy requires a 0.02—0.05-mm copper coating. Orig. art. has: 1 table.

SUB CODE: 20/ SUBM DATE: none/ ATD PRESS: 5099

awm

Card 2/2

GRUZOV, Ye.N.

Adaptation of gastropod mollusks to parasitism. Zool.zhur. 44
no.11:1620-1630 '65. (MIRA 18:12)

1. Zoologicheskiy institut AN SSSR, Leningrad.

GRUZOVA, M.N.

Karyosphere in the oogenesis of a darkling beetle. TSitologia
4 no.3:335-338 My-Je '62. (MIRA 16:3)

1. Laboratoriya morfologii kletki Instituta tsitologii AN SSSR,
Leningrad.

(OOGENESIS) (CHROMOSOMES) (INSECTS--PHYSIOLOGY)

GRUZNOV, N.I.

How we increase the yield of clover. Zemledelie 5 no.4:74-75
Ap '57. (MIRA 10:6)

1. Krasnokholmskaya Mashinno-traktornaya stantsiya, Kalininakoy
oblasti.

(Clover)

GRUZNOV, N.I.

Growing high-quality flax. Nauka i pered.op.v sel'khoz. 7 no.7:57-59
Jl. '57. (MLRA 10:8)

1.Direktor Krasnokholmskoy oporno-pokazatel'noy Mashinno-traktornoy
stantsii Kalininskoy oblasti.
(Flax)

GRUZNOV, N. *I*

Sorting helps to improve the quality of retted flax straw.
Nauka i pered.op.v sel'khoz. 9 no.8:16-17 Ag '59.
(MIRA 12:12)

1. Direktor Krasnokholmskoy remontno-tekhnicheskoy stantsii.
(Flax)

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NEKHEDZI, Yu.A.; GIRSHOVICH, N.G.; GRUZYKH, I.V.; BILYKH, V.Ya.;
KUPTSOV, I.V.; SIMANOVSKIY, M.P.; ANTIPOV, M.V.

Foundry properties of heat-resistant alloys. Issl. po zharopr.
splav. 6:308-313 '60. (MIRA 13:9)
(Heat-resistant alloys) (Founding)

S/128/61/000/006/002/004
A054/A127

AUTHORS: Gruznykh, I.V.; Nekhendzi, Yu.A.

TITLE: Technological testing of hot cracks in steel castings

PERIODICAL: Liteynoye proizvodstvo, no. 6, 1961, 7 - 9

TEXT: The technological tests generally used to determine the development of hot cracks do not fully meet the requirements, because they principally record the effect of the metal quality and the casting temperature within narrow limits. The technological test suggested simulates the conditions of industrial casting adequately, while, moreover, the effects of various factors involved in the casting process can be studied as well. A ring is used as test specimen which has a cylindrical part, 100 mm in height and a conical part, 50 mm in height, and walls of 6 and 20 mm, respectively. The inner hollow part of the ring is formed by a core, which ensures the required degree of shrinkage delay, actually causing the hot cracks. The upper part with a thicker wall which is connected to the thinner wall of the lower part ensure the conditions necessary for thermal delay of shrinkage and consequently for hot cracks at the bend where the thin and thick wall sectors meet. The upper tapered part can also be made cylindrical in order

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to increase the capacity of the specimen. The runner system consists of a stand pipe and a feeder. There are two dead heads at the top of the specimen, each 25 mm in diameter. Some 15 kg of metal are fed tangentially into the cylindrical part. The size and shape of the runner system ensure that pouring takes a long time, so that a high temperature is obtained in the specimen in the zone where the metal enters. All this increases the sensitivity of the test to a number of external factors affecting the crack formation. The feeder widens upward towards the stand pipe in order to prevent solidification. Hot cracks usually form in the cylindrical part of the specimen and at the bend where the thick and thin wall sectors meet. The tendency of the casting to cracking is usually assessed by the degree of its crack resistance. However, the parameters indicating this degree do not give an indication of the size of the cracks that form. Nor is it sufficient to assess the tendency of the casting to crack formation to the length of the cracks. The "cracked" condition which should be applied for completing the parameter of crack resistance takes into account both the length and the width of the cracks formed. Therefore, it is suggested to use the area of cracks on the surface of the casting as quantitative parameter of its cracked condition. Tests carried out with carbon and alloyed structural steels prove that the method based on the area of cracks is reliable. The results obtained with this method corres-

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pond to those received for crack resistance by conventional methods. By calculating the crack area in the casting, the steels investigated could be arranged according to their crack resistance. Other casting factors such as the core mixture were also studied in the laboratory of the Leningradskiy politekhnicheskii institut (Leningrad Polytechnic Institute). When a composition of 94% quartz sand, 6% refractory clay and 6% liquid glass (density 1.5), having a strength of 0.40 - 0.50 kg/cm² in moist condition and 3.0 - 3.5 kg/cm² when dry, was used, no cracks formed at the wall bend of carbon steel castings, most probably due to the slight difference in the thickness of the wall sectors for the given casting conditions. By changing the ratio of thickness of thin and thick wall sectors in the specimen it is possible to determine the critical wall thickness, which for given local circumstances is necessary to prevent crack formation. As it is easily possible to modify the various factors of casting in the test suggested it is suitable for the determination of the effect of these factors and of steel composition on crack formation. There are 5 figures, 3 tables and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: H.F. Hall, "Iron and Steel", no. 15, 1936, 65 - 93; K. Bakius, "Foundry Trade Journal", v. 104, no. 2156 and 2159, 1958. ✓

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ACCESSION NR: AT4016608

S/3071/63/000/000/0020/0026

AUTHOR: Gruzny*kh, I. V. (Engineer)

TITLE: Crack resistance of alloy steels

SOURCE: Osnovny*ye zadachi razvitiya liteynogo proizvodstva i uluchsheniya yego spetsializatsii (Basic problems of the development of foundry production and the improvement of its specialization). 16 Vsesoyuznaya n.-tekhn. konferentsiya. Trudy*. Moscow, 1963, 20-26

TOPIC TAGS: crack resistance, austenitic steel, steel, alloy steel, crack formation

ABSTRACT: The percentage and complexity of thin-walled steel castings is constantly increasing. This causes difficulties due to an increase in the number of thermal cracks. There are two ways of eliminating these cracks:technologically and metallurgically. The article considers the effect of different alloying elements on crack resistance, as well as the crack resistance of various steel alloys (see Fig. 1 of the Enclosure). On the basis of laboratory tests the author concludes that the best method of improving crack resistance is the addition of certain alloying elements.: C, Mn, Cr, Ni, W, Mo, Nb, and S were tested. For these alloys it was found that decreasing the nickel content and increasing the tungsten, Cord 1/3

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molybdenum, and manganese content results in higher crack resistance. For the widely-used chromium-nickel austenitic steels, partial replacement of nickel by manganese improves the crack resistance. "The work was carried out during consultation with Yu. A. Nekhendz', Engineer V. N. Dudorova took part in conducting the tests." Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 13Feb64

ENCL: 01

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

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ACCESSION NR: AT4037526

S/2563/63/000/224/0084/0096

AUTHOR: Gruzny*kh, I. V.; Kochkareva, G. P.

TITLE: Flowability of heat resistant alloys

SOURCE: Leningrad. Politekhnikheskiy institut. Trudy*, no. 224, 1963. Liteyny*ye svoystva zharoprochny*kh splavov. (Castability of heat-resistant alloys), 84-96

TOPIC TAGS: heat resistant alloy, heat resistant alloy castability, iron based alloy, nickel based alloy, Nichrome alloy, austenitic steel, high alloy steel, alloy No. 3, alloy No. 6, alloy No. 300, alloy 111, alloy Kh1, alloy Kh32, alloy LA3, alloy EI612, alloy flowability, spiral sample method, vacuum suction method, flowability test procedure, alloy flowability

ABSTRACT: Vacuum suction and improved spiral sample methods were employed to study dependence of the flowability of basic heat resistant systems and commercial alloys (see Nekhendzi, Yu. A., p. 9-23, samebook, for all compositions) on thermal and physical

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